

Roll No. ....

**22606**

**M. Tech. 1<sup>st</sup> Sem. (ME) CBCS Scheme  
Examination – February, 2022  
METHOD ENGINEERING & ERGONOMICS**

Paper : MTMEZ1D2

Time : Three hours ] [ Maximum Marks : 100

*Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.*

*Note : Attempt any five questions. All questions carry equal marks.*

1. Discuss the principle of motion economy used in method study. 20
  
2. Bring out the factors affecting work measurement. Also highlight the merits and demerits of work measurement with examples 20
  
3. (a) What is the role of ergonomics in industrial engineering? 10

- (b) Discuss the various factors which are considered for ergonomic design of controls. 10
4. Explain the general principles for carrying out the physical activities in design of a problem. 20
5. Discuss different type of Control devices and the function which they perform. 20
6. Discuss the various types of panels and machine displays with neat sketches. 20
7. How does human body respond to thermal regulations ? Discuss the methods of Protection against these thermal regulations. 20
8. Write short notes on the following : 20
- (a) Effect of noise on performance
- (b) Protection from noise
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